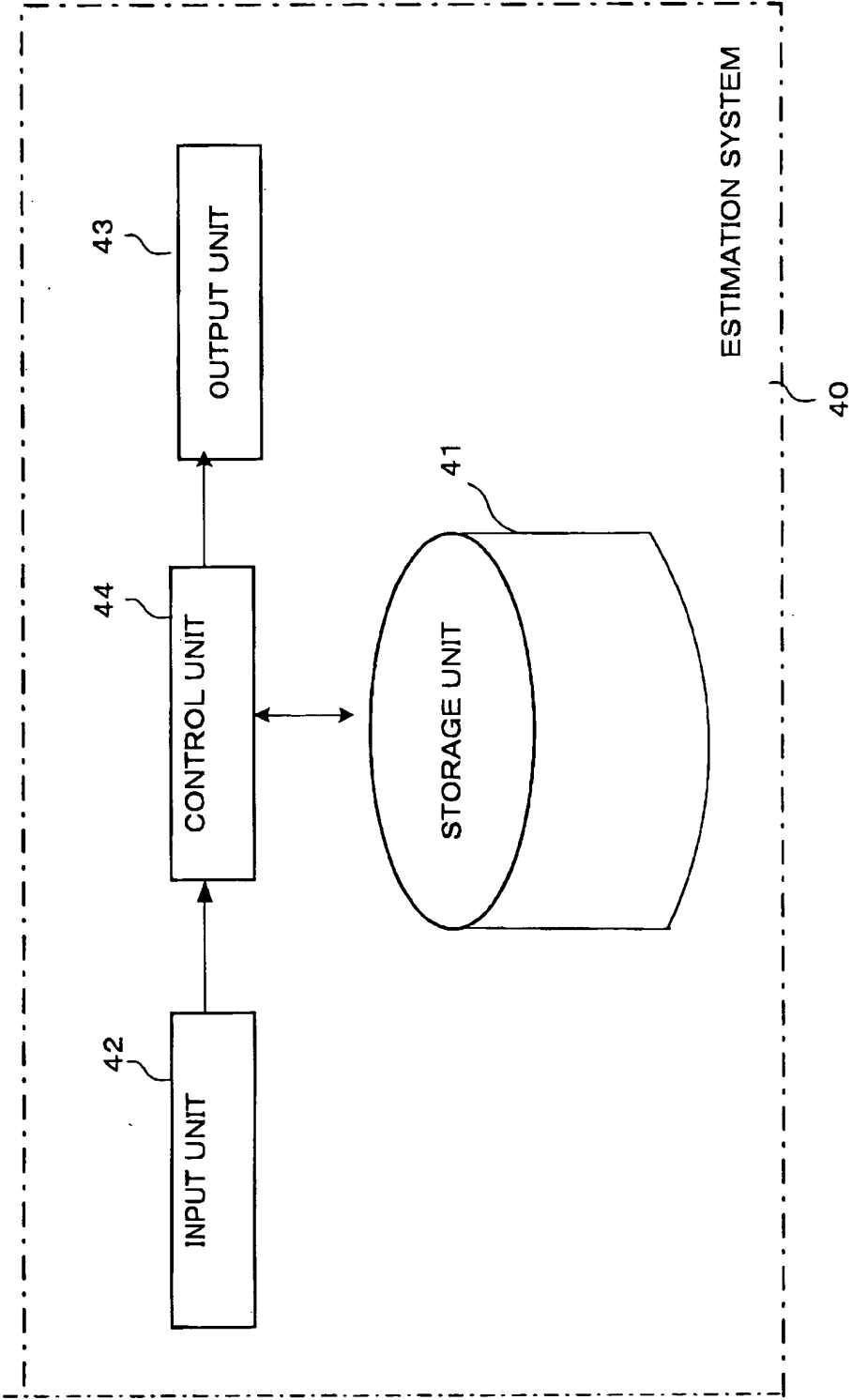


FIG. 1

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FIG. 2

SCREEN SHIFT >

HANDLING COST
CALCULATION OF
COST TABLE
DIRECT INPUT OF
PRICE
CALCULATING OF
COST RATIO
NONE

ESTIMATION RESULT LIST
DISPLAY

TOTALIZATION/
CONFIRMATION of INPUT ITEM
SEARCH FOR UNIT PRICE OF
HARNESS CHILD COMPONENT

HARNESS

COMPONENT NUMBER SUFFIX COMPONENT NAME

UNIT COMPONENT PRICE COMPONENT COST DIRECT INPUT OF COMPONENT COST

PROCESSING COST OTHERS

MONTHLY LOT

COMPONENT CONSTITUTION INFORMATION

LEVEL	COMPONENT NUMBER	SFX	QUANTITY	UNIT PRICE	TOTAL PRICE	KIND	PROCESS STEP
1							
2							
3							
4						a7	
5							

COMPONENT INFORMATION ACQUIRING

UNIT PRICE INFORMATION ACQUIRING

PROCESS STEP INFORMATION EDITING

READING REGISTERING CALCULATING

a9 a10 a11

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FIG. 3

b1

COMPONENT NUMBER		SUFFIX		COMPONENT NAME		▲PRIOR COMPONENT	
PROCESSING INFORMATION		INSULATION-DISPLACEMENT-CRIMPING(IDC)		WIRING - PREPARATION WORKS/WIRING		▼NEXT COMPONENT	
CONNECTING (C.C.)		WIRING-RELATED WORKS		CONTINUITY CHECK/APPEARANCE CHECK		RETURN	
						CANCEL	
						HELP	
						PROCESS GUIDE	
						< NAVIGATOR >	
PROCESS STEP		PARAMETER					
SEMI-AUTOMATED I.D.C		NUMBER OF TIMES FOR IDC					
		QT. OF WIRES					
		QT. OF CONNECTORS					
		NO. OF KINDS OF CONNECTORS					
FULLY-AUTOMATED I.D.C		WIRE'S LARGEST LENGTH		QT. OF POLES(PINS PER CN)			
		~200		2 3 4 5 6~7			
		201~500					
		501~1000					
MULTI		WIRE'S LARGEST LENGTH		11 OR MORE KIND (1 PER UNIT)		4~10 KIND (2 PER UNIT)	
		~200		2 3 4 . . .		2 3 4 . . .	
		201~500					
COPPER FOIL SHIELD		WIRE'S LARGEST LENGTH		QT. OF POLES(QT. OF PINS)			
		~200		2 3 4 5 6~7			
		201~500					

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FIG. 4

C.C
FULLY-AUTOMATED CUTTING
MANUAL C.C
SEPARATE TERMINAL C.C
CONTINUOUS TERMINAL C.C
FULLY AUTOMATED -DUAL TERMINAL C.C
TERMINAL INSERTING
IDC
SAIDC
FADTIDC(MULTI)
FADTIDC(SIMPLE)
FADTIDC(COPPER FOIL SHIELD)
WIRING -PREPARATION WORKS/WIRING
SOLDERING
INSULATION SLEEVE INSERTION
WIRE MARK ADHERING
SINGLE CN INSERTION INTO HOUSING
WIRING
WIRING-RELATED WORKS CONTINUITY CHECK/APPEARANCE CHECK
TERMINAL INSERTION INTO WIRES
BIND BUNDLING
TUBE ATTACHING
THERMAL CONTRACTION TUBE ATTACHING
SPIRAL LAP BUNDLING
RELAY CONNECTOR ATTACHING
SERGE KILLER ATTACHING
CIRCLE CORE ATTACHING
BRACKET ATTACHING
CONTINUITY CHECK
APPEARANCE CHECK

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FIG. 5

b1

COMPONENT NUMBER		SUFFIX		COMPONENT NAME		▲PRIOR COMPONENT	
PROCESS INFORMATION						▼NEXT COMPONENT	
CRIMP-CONNECTING (C.C)		INSULATION-DISPLACEMENT-CRIMPING(IDC)		WIRING - PREPARATION WORKS/WIRING		RETURN	
						CANCEL	
						HELP	
						PROCESS GUIDE	
						< NAVIGATOR >	
PROCESS STEP		PARAMETER					
FULLY-AUTOMATED CUTTING		NUMBER OF KIND OF WIRE LENGTH					
		WIRE LENGTH		QT.OF VINYL COVERED WIRES		QT.OF OTHER TYPE OF WIRES	
		~600					
		601~900					
MANUAL C.C (CLOSED TERMINAL) SEPARATE		QT. OF WIRE FOR C.C		NO. OF QT. OF WIRE NO. OF POINTS		QT. OF WIRE NO. OF POINTS	
				2		3	
TERMINAL C.C		NO. OF KIND OF TERMINAL					
		QT. OF WIRE FOR C.C		NO. OF QT. OF WIRE NO. OF POINTS		QT. OF WIRE NO. OF POINTS	
		1		2		3	
CONTINUOUS TERMINAL C.C		NO. OF KIND OF TERMINAL					
		QT. OF WIRE FOR C.C		NO. OF QT. OF WIRE NO. OF POINTS		QT. OF WIRE NO. OF POINTS	
		1		2		3	
FULLY-AUTOMATED DUAL TERMINAL C.C		NUMBER OF KIND OF WIRE LENGTH					
		WIRE LENGTH		QT. OF WIRE		QT. OF WIRE	
		~500		501~1000		...	
TERMINAL INSERTING		QT. OF CONNECTOR		QT. OF TERMINAL			

FIG. 6

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b1

COMPONENT NUMBER		SUFFIX		COMPONENT NAME		<input type="button" value="▲PRIOR COMPONENT"/> <input type="button" value="▼NEXT COMPONENT"/> <input type="button" value="RETURN"/> <input type="button" value="CANCEL"/> <input type="button" value="HELP"/> <input type="button" value="PROCESS GUIDE"/>			
<PROCESS INFORMATION>		INSULATION-		WIRING -		WIRING-RELATED WORKS			
CONNECTING (C.C.)		DISPLACEMENT- CRIMPING(IDC)		PREPARATION WORKS/WIRING		CONTINUITY CHECK/ APPEARANCE CHECK			
PROCESS STEP		PARAMETER		KIND		QT. OF WIRES QT. OF COMPONENT			
WIRING - PREPARATION WORKS		SOLDERING		INLET FUSE					
				MICRO SW CN					
				NO. OF POINTS					
WIREMARK ADHEERING		QT. OF WIRES		QT. OF POINTS					
				1					
				2 OR MORE					
SINGLE CN INSERTION INTO HOUSING		QT. OF HOUSING							
WIRING		WIRE'S LARGEST LENGTH		QT. OF CONNECTOR		QT. OF TERMINALS			
						~500			
						501~			
TERMINAL KIND		CLOSED		CIRCLE		RESIN COVER			
		<input type="checkbox"/>		<input type="checkbox"/>		FASTON			
						<input type="checkbox"/>			

< NAVIGATOR >

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FIG. 7

b1

COMPONENT NUMBER		SUFFIX	COMPONENT NAME		WIRING-RELATED WORKS	
CRIMP-CONNECTING (C.C)		INSULATION-DISPLACEMENT-CRIMPING(IDC)	WIRING - PREPARATION WORKS/WIRING	CONTINUITY CHECK/APPEARANCE CHECK		
PROCESS STEP		PARAMETER				
WIRING-RELATED WORKS		TERMINAL INSERTION INTO WIRES	QT. OF TERMINALS			
BIND BUNDLING		KIND	QT. OF POINTS			
TAPING BUNDLING		CLOSED TERMINAL CORE CROSS OTHERS(GENERAL)				
		WIRES	LENGTH	BRANCHES	TERMINALS TAPING	
		~3				
		4~11				
		11~				
TUBE ATTACHING		TUBE LENGTH	QT. OF POINTS			
THER. CONTRACTION		KIND	TUBE LENGTH	QT. OF POINTS		
TUBE ATTACHING		SILICON				
		OTHERS				
SPIRAL LAP		WIRE LENGTH	BRANCHES/POINTS	/		
RELAY CN.		QT. OF POINTS	SURGE KILLER	QT. OF POINTS		
ATTACHING		ATTACHING				
CIRCLE CORE		CORES/WIRES	WINDINGS	SPLIT CORE	CORES WINDINGS	
ATTACHING		ATTACHING	ATTACHING			
BRACKET		QT. OF BRACKETS	QT. OF SCREWS			
ATTACHING						
CONTINUITY/APPEARANCE CHECK		QT. OF CN	QT. OF TERMINALS			

▲PRIOR COMPONENT

▼NEXT COMPONENT

RETURN

CANCEL

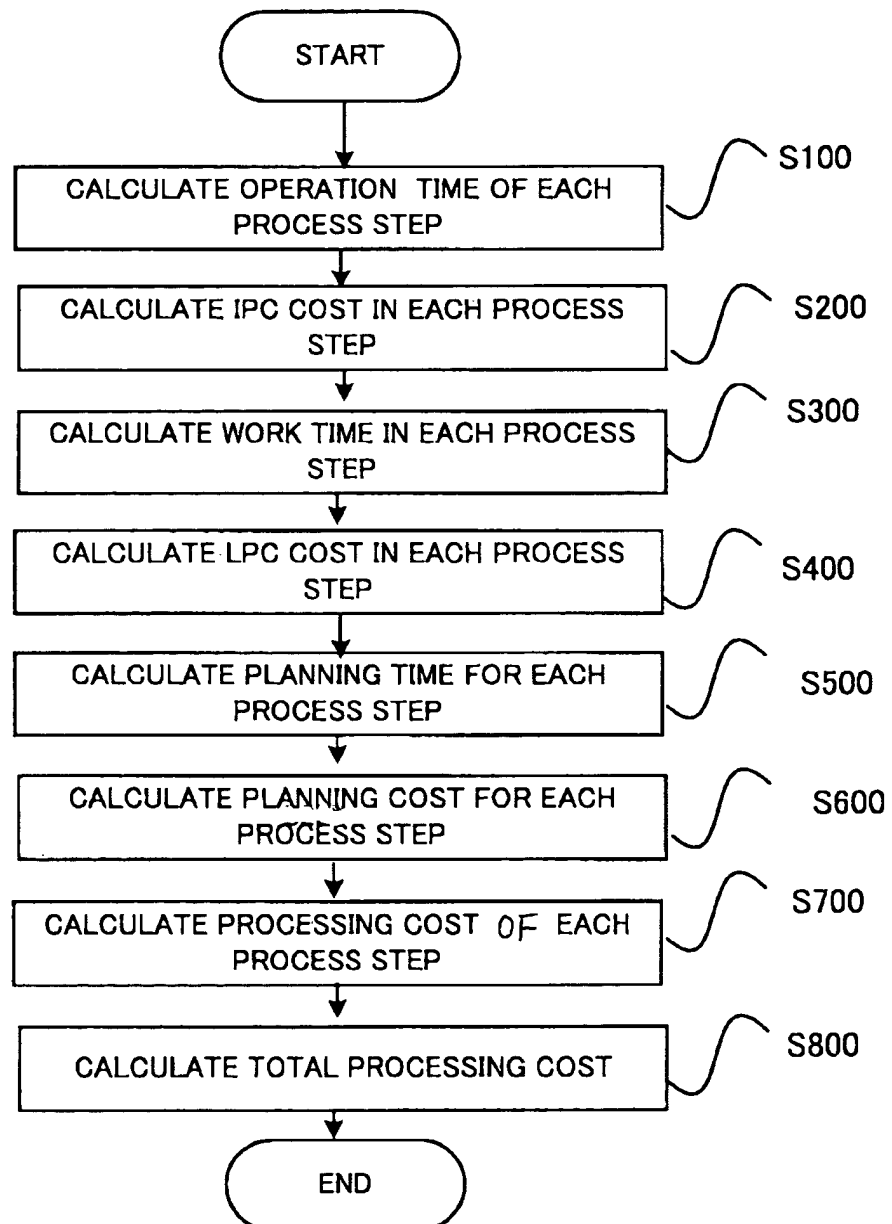
HELP

PROCESS GUIDE

< NAVIGATOR >

FIG. 8

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F I G. 9

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	QT. OF POLES(PINS ON CHILD SIDE)				
	2	3	4	5~7	8~15
~200	• • •	• • •	• • •	• • •	• • •
201~500	• • •	• • •	• • •	• • •	• • •
501~1000	• • •	• • •	• • •	• • •	• • •
1001~	• • •	• • •	• • •	• • •	• • •

FIG. 10

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<div><div></div><div>P</div><div>C</div></div>			L		201	501	1001
				200	500	1000	
11 POLES OR MORE	1 PER UNIT	2	
		3	
		4	
		5	
		6	
		7	
4~10 POLES	2 PER UNIT	2	
		3	
		4	

L: WIRE'S LARGEST LENGTH

P: QUANTITY OF CONNECTORS ON PARENT SIDE

C: QUANTITY OF CONNECTORS ON CHILD SIDE

FIG. 11

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	QT. OF POLES(PINS ON CHILD SIDE)					
	2	3	4	6~7	8~10	11~15
~200	• • •	• • •	• • •	• • •	• • •	• • •
201~500	• • •	• • •	• • •	• • •	• • •	• • •
501~1000	• • •	• • •	• • •	• • •	• • •	• • •
1001~	• • •	• • •	• • •	• • •	• • •	• • •

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FIG. 12

WIRE LENGTH	OPERATION TIME ESTIMATION FUNCTION	
	VINYL-COVERED	OTHERS
~600	OPERATION TIME =0.9*WIRES	OPERATION TIME =1.1*WIRES
601~900	• • •	• • •
901~1200	• • •	• • •
1201~1500	• • •	• • •
1501~1800	• • •	• • •
1801~2000	• • •	• • •
2101~2400	• • •	• • •
2401~3000	• • •	• • •

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FIG. 13

QUANTITY OF WIRES FOR CC	OPERATION TIME ESTIMATION FUNCTION
1	OPERATION TIME = $1.4 + 8.1 \times \text{NO. OF POINTS FOR CC}$
2	• • •
3	• • •
4	• • •
5	• • •
6	• • •
7	• • •
8	• • •
9	• • •

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FIG. 14

QUANTITY OF WIRES FOR CC	OPERATION TIME ESTIMATION FUNCTION
1	OPERATION TIME = $4.4 \times \text{NO. OF POINTS FOR CC}$
2	• • •
3	• • •

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FIG. 15

QUANTITY OF WIRES FOR CC	OPERATION TIME ESTIMATION FUNCTION
1	OPERATION TIME = $1.2 \times \text{NO. OF POINTS FOR CC}$
2	• • •
3	• • •

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FIG. 16

WIRE LENGTH	OPERATION TIME ESTIMATION FUNCTION
~600	OPERATION TIME = $1.2 \times Q_T$ OF WIRES
601 ~ 900	• • •
901 ~ 1200	• • •
1201 ~ 1500	• • •
1501 ~ 1800	• • •
1801 ~ 2000	• • •
2101 ~ 2400	• • •
2401 ~ 3000	• • •

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FIG. 17

KIND	OPERATION TIME ESTIMATION FUNCTION
INLET, FUSE HOLDER	OPERATION TIME = $14.6 \times Q.T.$ OF WIRES + $5.4 \times Q.T.$ OF COMPONENTS
MICRO SW, CONNECTOR	• • • •

FIG. 18

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QUANTITY OF WIRES	OPERATION TIME ESTIMATION FUNCTION
1	OPERATION TIME = 3.2 * NO. OF POINTS WIREMARK ADHERING
2 OR MORE	° ° ° °

FIG. 19

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WIRE'S LARGEST LENGTH	OPERATION TIME ESTIMATION FUNCTION
~500	OPERATION TIME =0.7+1.0*NO.OF CONNECTORS+QT.TERMINALS
501~	• • •

FIG. 20

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KIND	OPERATION TIME ESTIMATION FUNCTION
80,100,150	OPERATION TIME = 3.2 * NO.OF POINTS FOR BIND
CLOSED TERMINAL, CORE CROSS FIXING	• • •

F I G. 2 1

2 1 / 3 8

QUANTITY OF WIRES	OPERATION TIME ESTIMATION FUNCTION
3 OR LESS	OPERATION TIME = $2.9 \times \text{NO. OF POINTS FOR TAPING}$ $+ 0.043 \times \text{TAPING LENGTH} + 21 \times (\text{NUMBER OF BRACHES} + \text{QT. OF CLOSED TERMINAL})$
4 TO 10	• • • •
11 OR LESS	• • • •

F I G. 2 2

2 2 / 3 8

TUBE KIND	OPERATION TIME ESTIMATION FUNCTION
SILICON TUBE	OPERATION TIME = $5.4 * \text{NO. OF POINTS FOR TUBE ATTACHING}$ $+ 0.1 * \text{TUBE LENGT}$
OTHERS	OPERATION TIME = $5.4 * \text{NO. OF POINTS FOR ATTACHING}$ OTHERS THAN TUBE $+ 0.1 * \text{LENGTH OF OTHERS THAN TUBE}$

FIG. 23

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PROCESS STEP	TIME FACTOR
FULLY-AUTOMATED DUAL TERMINAL C.C	1.12
CONTINUOUS TERMINAL C.C	1.16
SEPARATE TERMINAL C.C	...
FULLY-AUTOMATED DUAL TERMINAL IDC(MULTI)	...
FULLY-AUTOMATED DUAL TERMINAL IDC(COPPER FOIL SHIELD)	...
FULLY-AUTOMATED DUAL TERMINAL IDC(SIMPLE)	...
SEMI-AUTOMATED IDC	...
FULLY-AUTOMATED CUTTING	...

F I G. 24

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	IPC COST RATIO (YEN/Hr)	LPC COST RATIO (YEN/Hr)	TOTAL (YEN/Hr)	IPC COST RATIO (YEN/ sec)	LPC COST RATIO (YEN/ sec)	TOTAL (YEN/ sec)
FULLY-AUTOMATED CUTTING						
MANUAL C.C						
SEPARATED TERMINAL C.C						
CONTINUOUS TERMINAL C.C						
FULLY AUTOMATED -DUAL TERMINAL C.C						
TERMINAL INSERTING						
SAIDC						
FADTDC(MULTI)						
FADTDC(SIMPLE)						
FADTDC(COPPER FOIL SHIELD)						
SOLDERING						
INSULATION SLEEVE INSERTION						
WIRE MARK ADHERING						
SINGLE ON INSERTION INTO HOUSING						
WIRING						
TERMINAL INSERTION INTO WIRES						
BIND BUNDLING						
TUBE ATTACHING						
THERMAL CONTRACTION TUBE ATTACHING						
SPIRAL LAP BUNDLING						
RELAY CONNECTOR ATTACHING						
SERGE KILLER ATTACHING						
CIRCLE CORE ATTACHING						
BRACKET ATTACHING						
CONTINUITY CHECK						
APPEARANCE CHECK						

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FIG. 25

HARNESS ESTIMATED COST LIST				
COMPONENT NUMBER	SUFFIX	ADDITIONAL ASSESSMENT NUMBER	PRODUCTION BASE	OBJECTIVE
COMPONENT NAME		WORKING LOT/MONTH		
UNIT COMPONENT COST				
MATERIAL COST				
PROCESSING COST				
MATERIAL LOSS COST		=MATERIAL COST	*MATERIAL LOSS COST RATIO	
MATERIAL MANAGEMENT COST		=MATERIAL COST	*MATERIAL MANAGEMENT COST RATIO	
GENERAL MANAGEMENT COST		=PROCESSING COST	*GENERAL MANAGEMENT COST RATIO	
PROFIT MARGIN		=(PROCESSING COST + GENERAL MANAGEMENT COST)	+ MATERIAL MANAGEMENT COST	
TRANSPORTATION/MATERIAL HANDLING COST		=TRANSPORTATION COST	*PROFIT MARGIN RATIO	
		+ SHEET/BAG COST	+ MATERIAL HANDLING COST	
		+ DIVIDER COST	+ WRAPPING COST	

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FIG. 26

[illegible]

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FIG. 27

COMPONENT NUMBER	[]	SUFIFX	[]	COMPONENT NAME	[]	<div>OK</div> <div>CANSEL</div>
<div style="display: flex; justify-content: space-around; border-bottom: 1px solid black; padding-bottom: 5px;">IDCC.C</div>						
<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"><p style="text-align: center;">SIMPLE</p><p style="text-align: center;">WIRE LENGTH []</p><p><input type="checkbox"/> COPPER FOIL SHIELD WIRE</p><p><input type="checkbox"/> QT.OF.UNUSED PINS IN ONE CONNECTOR IS HALF OR MORE OF TOTAL QUANTITY OF PINS</p></div> <div style="border: 1px solid black; padding: 5px;"><p>MULTI THERE ARE TWO OR MORE</p><p><input type="checkbox"/> CONTINUOUS UNUSED PINS IN PARENT CONNECTOR</p><div style="margin-top: 5px;"><p>WIRE LENGTH []</p><p>WIRE LENGTH []</p><p>WIRE LENGTH []</p><p>WIRE LENGTH []</p><p>WIRE LENGTH []</p><p>WIRE LENGTH []</p><p>WIRE LENGTH []</p></div></div>					<p>REFERENCE DIAGRAM 1</p> <p>INSULATION DISPLACEMENT CRIMPING(SIMPLE)</p> <div style="border: 1px solid black; height: 50px; margin-top: 10px; text-align: center; line-height: 50px;">IMAGE</div>	
<div style="border: 1px solid black; padding: 5px;"><p>MULTI THERE ARE TWO OR MORE</p><p><input type="checkbox"/> CONTINUOUS UNUSED PINS IN PARENT CONNECTOR</p><div style="margin-top: 5px;"><p>WIRE LENGTH []</p><p>WIRE LENGTH []</p><p>WIRE LENGTH []</p><p>WIRE LENGTH []</p><p>WIRE LENGTH []</p><p>WIRE LENGTH []</p><p>WIRE LENGTH []</p></div></div>					<p>REFERENCE DIAGRAM 2</p> <p>INSULATION DISPLACEMENT CRIMPING(MULTI)</p> <div style="border: 1px solid black; height: 50px; margin-top: 10px; text-align: center; line-height: 50px;">IMAGE</div>	

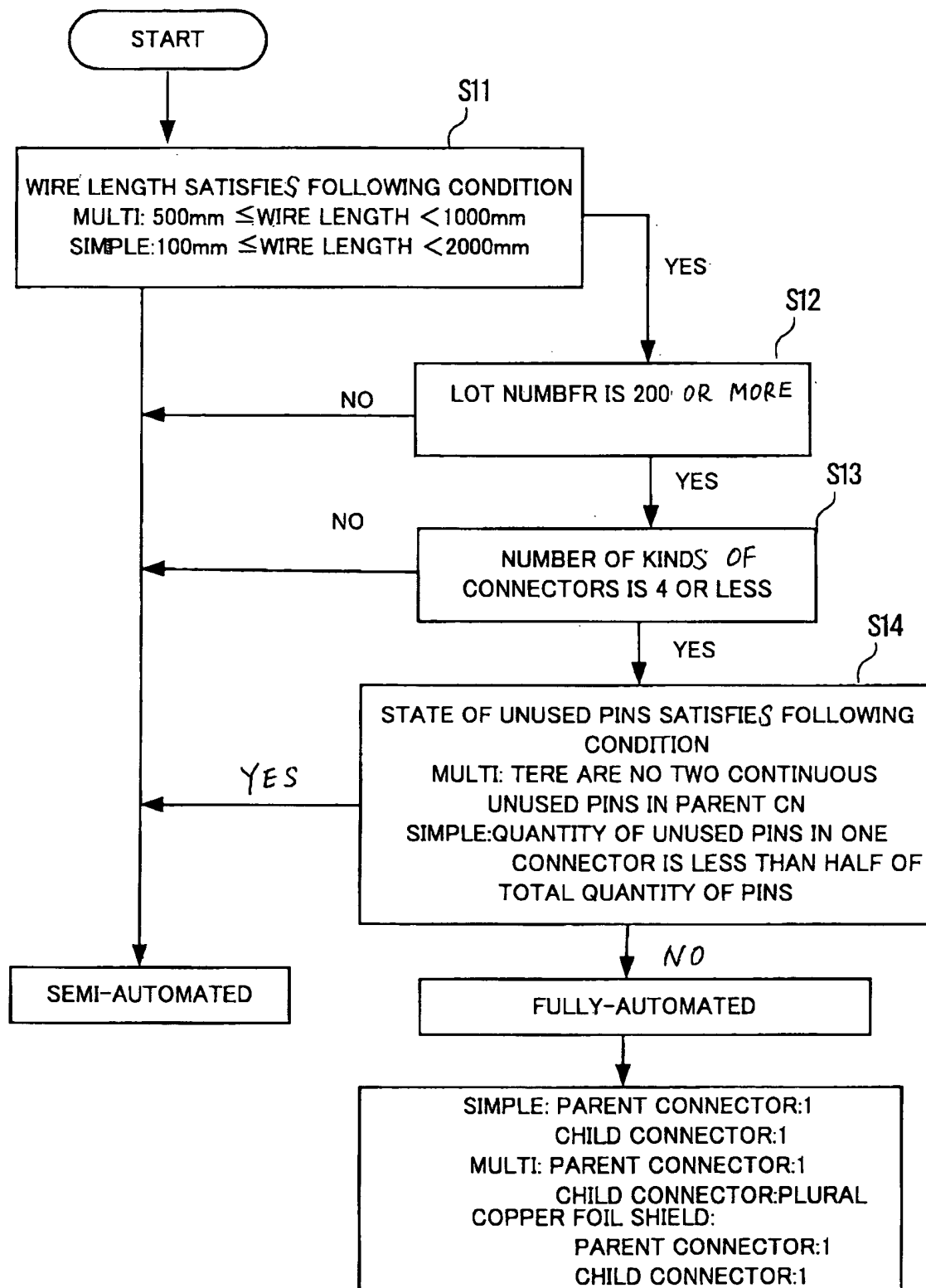
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FIG. 28

COMPONENT NUMBER		SUFFIX		COMPONENT NAME		<div style="border: 1px solid black; padding: 2px; width: 50px; margin: 0 auto;">OK</div> <div style="border: 1px solid black; padding: 2px; width: 50px; margin: 0 auto;">CANCEL</div>
<div style="display: flex; justify-content: space-around; font-weight: bold; padding: 5px 0;">IDCC.C</div>						
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><input type="checkbox"/> CLOSED TERMINAL INCLUDED</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><input type="checkbox"/> RESIN-COVERED CIRCLE TERMINAL INCLUDED</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><input type="checkbox"/> MICRO SW, INLET, OR FUSE HOLDER INCLUDED</div> <div style="border: 1px solid black; padding: 5px;"><input type="checkbox"/> FIRST-IN SLEEVE INCLUDED</div>		<div style="margin-bottom: 10px;">WIRE LENGTH <div style="border: 1px solid black; width: 60px; height: 20px; margin: 0 auto;"></div></div> <div><input type="checkbox"/> WIRE MATERIAL IS SILICON, GLASS, OR TEFLON</div>		<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><input type="checkbox"/> CLOSED TERMINAL INCLUDED</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><input type="checkbox"/> RESIN-COVERED CIRCLE TERMINAL INCLUDED</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><input type="checkbox"/> MICRO SW, INLET, OR FUSE HOLDER INCLUDED</div> <div style="border: 1px solid black; padding: 5px;"><input checked="" type="checkbox"/> FIRST-IN SLEEVE INCLUDED</div>		
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><input type="checkbox"/> CLOSED TERMINAL INCLUDED</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><input type="checkbox"/> RESIN-COVERED CIRCLE TERMINAL INCLUDED</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><input type="checkbox"/> MICRO SW, INLET, OR FUSE HOLDER INCLUDED</div> <div style="border: 1px solid black; padding: 5px;"><input type="checkbox"/> FIRST-IN SLEEVE INCLUDED</div>		<div style="margin-bottom: 10px;">WIRE LENGTH <div style="border: 1px solid black; width: 60px; height: 20px; margin: 0 auto;"></div></div> <div><input type="checkbox"/> WIRE MATERIAL IS SILICON, GLASS, OR TEFLON</div>		<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><input type="checkbox"/> CLOSED TERMINAL INCLUDED</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><input type="checkbox"/> RESIN-COVERED CIRCLE TERMINAL INCLUDED</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><input type="checkbox"/> MICRO SW, INLET, OR FUSE HOLDER INCLUDED</div> <div style="border: 1px solid black; padding: 5px;"><input type="checkbox"/> FIRST-IN SLEEVE INCLUDED</div>		
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><input type="checkbox"/> CLOSED TERMINAL INCLUDED</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><input type="checkbox"/> RESIN-COVERED CIRCLE TERMINAL INCLUDED</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><input type="checkbox"/> MICRO SW, INLET, OR FUSE HOLDER INCLUDED</div> <div style="border: 1px solid black; padding: 5px;"><input type="checkbox"/> FIRST-IN SLEEVE INCLUDED</div>		<div style="margin-bottom: 10px;">WIRE LENGTH <div style="border: 1px solid black; width: 60px; height: 20px; margin: 0 auto;"></div></div> <div><input type="checkbox"/> WIRE MATERIAL IS SILICON, GLASS, OR TEFLON</div>		<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><input type="checkbox"/> CLOSED TERMINAL INCLUDED</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><input type="checkbox"/> RESIN-COVERED CIRCLE TERMINAL INCLUDED</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><input type="checkbox"/> MICRO SW, INLET, OR FUSE HOLDER INCLUDED</div> <div style="border: 1px solid black; padding: 5px;"><input type="checkbox"/> FIRST-IN SLEEVE INCLUDED</div>		
•				•		
•				•		
•				•		

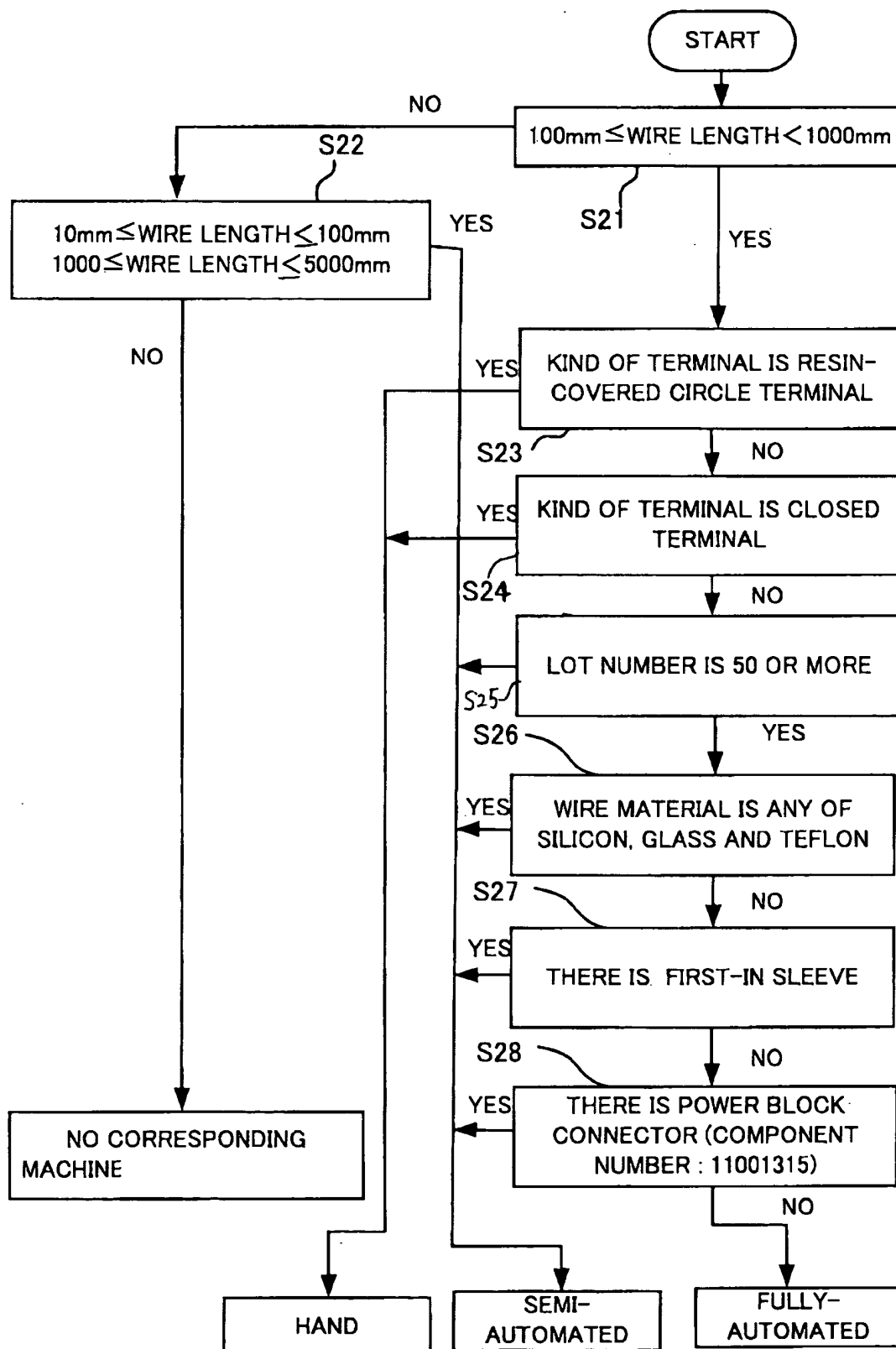
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FIG. 29



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FIG. 30



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	C. C					
	HAND		SEMI-AUTO			
	CLOSED TERMINAL	RESIN- COVERED TERMINAL	40 ≤ L < 45 5000 ≤ L < 9900	MICRO- INLET FUSE	SLEEVE	
SAIDC						
FULLY-AUTOMATED CUTTING		○	○	○	○	
MANUAL C.C						
SEPARATED TERMINAL C.C		○				
CONTINUOUS TERMINAL C.C			○		○	
FULLY AUTOMATED -DUAL TERMINAL C.C	○					
FADTDC						
FADTDC(SIMPLE)						
FADTDC(MULTI)						
FADTDC(COPPER FOIL SHIELD)						
WIRING -PREPARATION WORKS				○		
SOLDERING						
INSULATION SLEEVE INSERTION						○
WIRE MARK ADHERING	○	○	○			
TERMINAL INSERTING	○		○			○
WIRING	○	○	○	○		
SINGLE CN INSERTION INTO HOUSING			○			○
WIRING-RELATED WORKS						
TERMINAL INSERTION INTO WIRES			○			○
BIND BUNDLING		○	○	○		○
TAPING BUNDLING		○	○	○		○
TUBE ATTACHING		○	○	○		○
THERMAL CONTRACTION TUBE ATTACHING		○	○	○		○
SPIRAL LAP BUNDLING		○	○	○		○
RELAY CONNECTOR ATTACHING			○			
SURGE KILLER ATTACHING		○	○			○
CORE ATTACHING		○	○	○		○
BRACKET ATTACHING		○	○	○		○
CONTINUITY CHECK	○	○	○	○		○
APPEARANCE CHECK	○	○	○	○		○

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YELLOW RED

COMPONENT NUMBER		SUFFIX		COMPONENT NAME		▲PRIOR COMPONENT	
CRIMP-CONNECTING (C.C)		INSULATION-DISPLACEMENT-CRIMPING(IDC)		WIRING - PREPARATION WORKS/WIRING		▼NEXT COMPONENT	
WIRING-RELATED WORKS		TERMINAL INSERTION INTO WIRES		WIRING-RELATED WORKS		RETURN	
BIND BUNDLING		KIND		QT. OF POINTS		CANCEL	
TAPING BUNDLING		CLOSED TERMINAL CORE CROSS				HELP	
		OTHERS(GENERAL)				PROCESS GUIDE	
PROCESS STEP		PARAMETER				<NAVIGATOR>	
WIRING-RELATED WORKS		WIRE LENGTH		BRANCHES/TERMINALS		FULLY AUTO...	
		~3				TERMINAL INS...	
		4~11				YELLOW	
		11~				WIRE MARK AD...	
TUBE ATTACHING		TUBE LENGTH		QT. OF POINTS		SINGLE CN ...	
THER. CONTRACTION		KIND		TUBE LENGTH		WIRING	
TUBE ATTACHING		SILICON				RED	
		OTHERS				CONTINUITY CHECK	
SPIRAL LAP		WIRE LENGTH		BRANCHES/POINTS		APPEARANCE CHECK	
RELAY CNN.		QT. OF POINTS		SURGE KILLER			
ATTACHING		CIRCLES/WIRE WINDINGS		ATTACHING			
CIRCLE CORE		CORES/WIRE WINDINGS		SPLIT CORES			
ATTACHING		ATTACHING		ATTACHING			
BRACKETE		QT. OF BRACKETS		QT. OF SCREWS			
ATTACHING							
CONTINUITY/APPEARANCE CHECK		QT. OF CN		QT. OF TERMINALS			

YELLOW

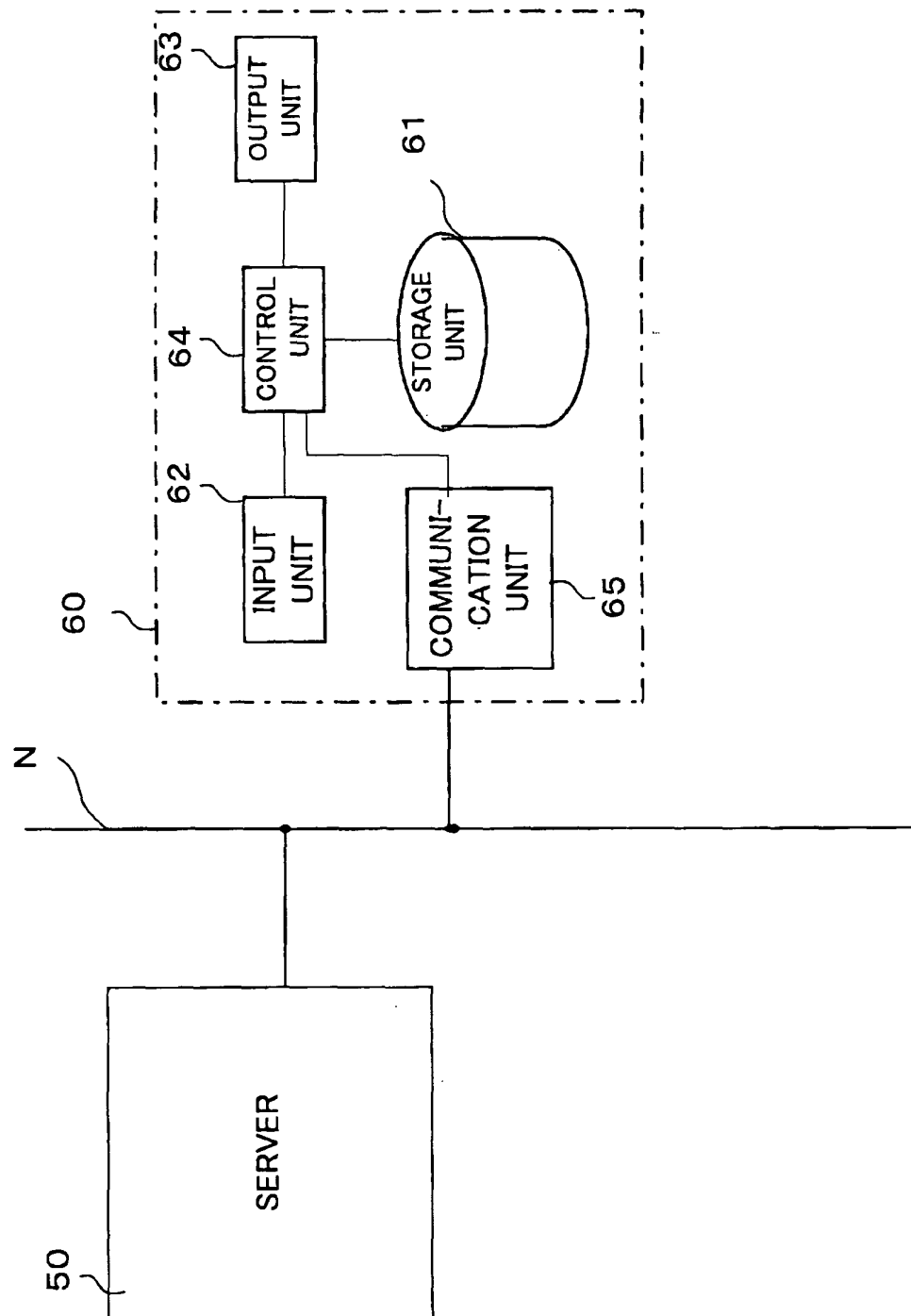
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FIG. 34

PROCESS STEP	FADTCC	CONTINUOUS TERMINAL CC	SEPARATE TERMINAL CC	FADTCC (MULTI)	FADTCC (COPPER FOIL SHIELD)	FADT10C (SIMPLE)
ELECTRICITY DEMAND RATIO						
LOGICAL AMOUNT OF CONSUMED ELECTRICITY						

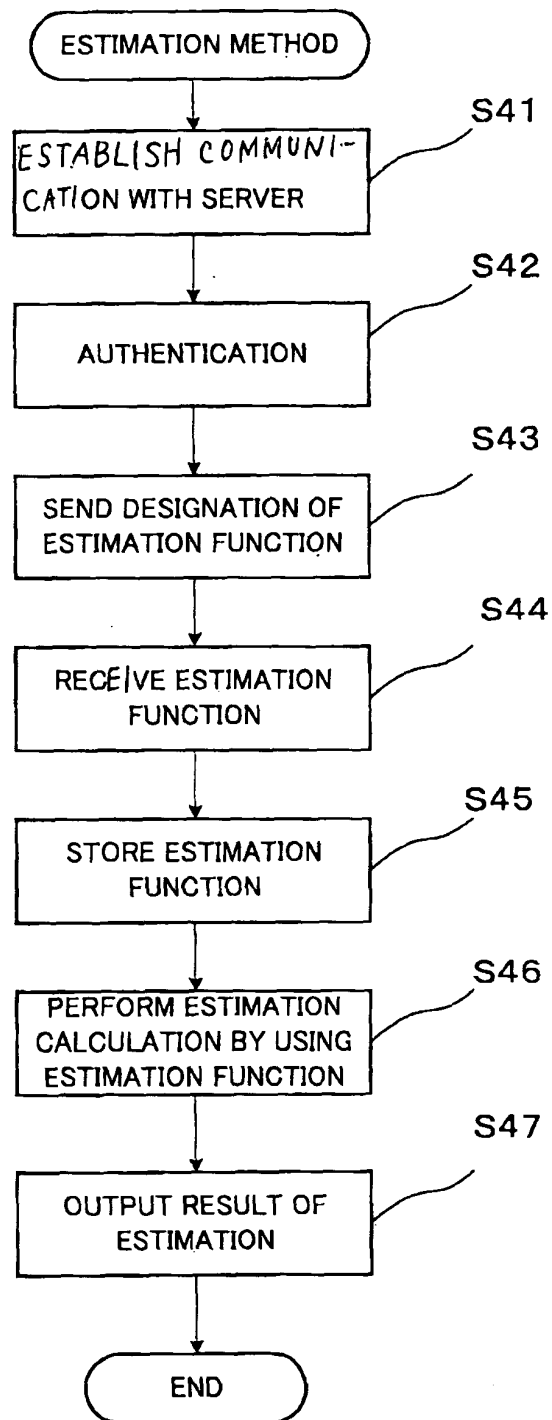
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FIG. 35



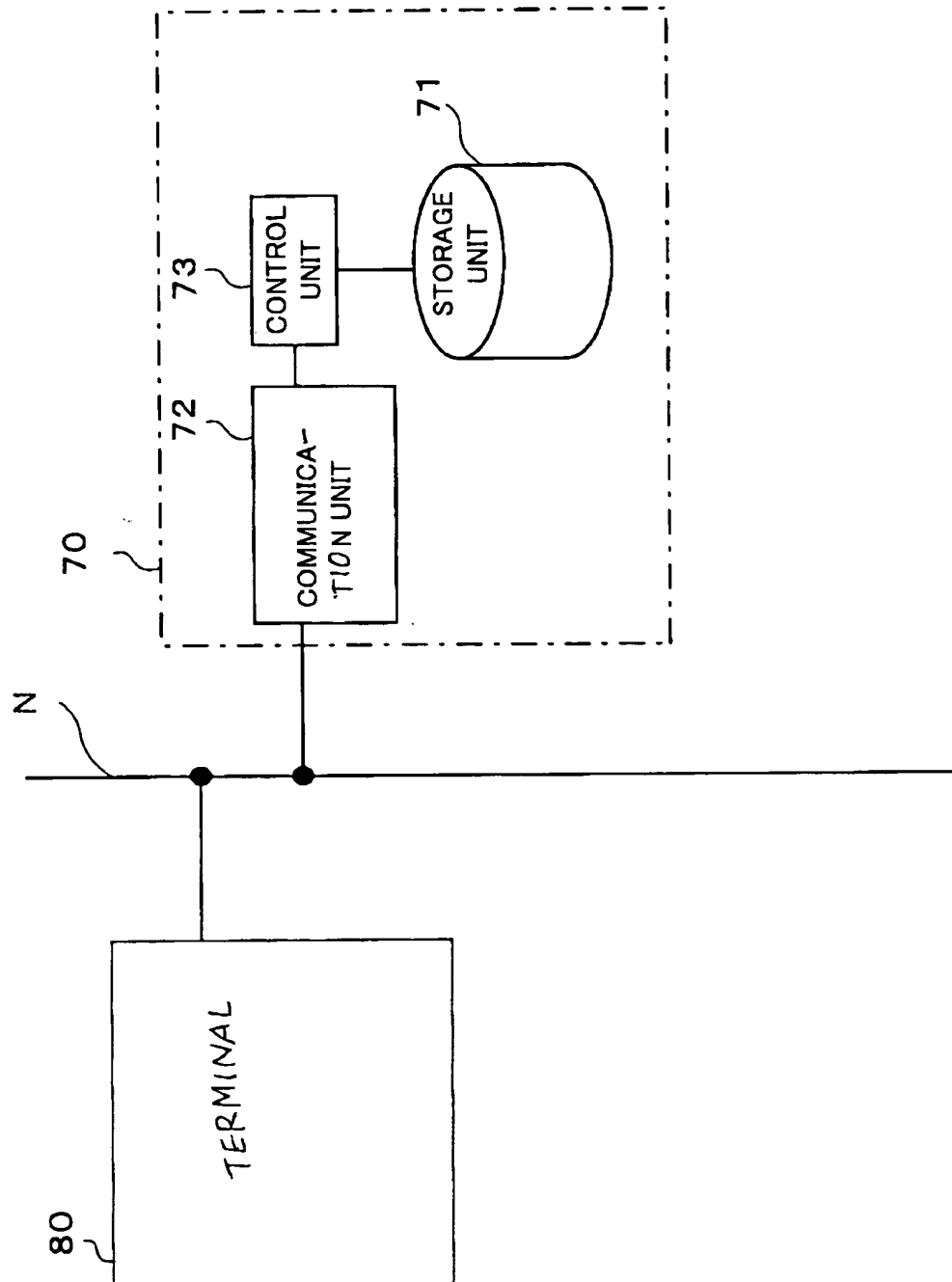
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FIG. 36



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FIG. 37



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FIG. 38

